

Thursday, November 19, 10:00 AM – 5:00 PM

THURSDAY, NOVEMBER 19, 2015

NOTE: All room assignments are provisional

10:00 AM – 5:00 PM

HSS THATCamp

St. Francis Suite – East Room and Club Room (12th Level)

See thatcamp.hss.wordpress.com for more details. Registration is free, but required.

1:00 PM – 5:00 PM

HSS Council Meeting

Elizabethan B

1:30 PM – 3:30 PM

(NOTE: Each presenter will have 24 minutes)

Developing Disciplines

Oxford Room

Chair: Frederick R. Davis (Florida State University, USA)

- “Refracting Light, Projecting Shadows: The Telescope and the Transformation of Kepler’s Optics,” Raz Chen-Morris (Bar-Ilan University, Israel)
- “Uncovering Laws of Vital Organization with Chemistry? The Case of Nutrition in the 19th Century,” Cecilia Bognon (University Paris 1 Panthéon-Sorbonne, France)
- “Migrating from the Field,” Matthew Laubacher (Ashford University, USA)
- “Modernity, Science, Archaeology. Challenging a Narrative,” Mirjam Brusius (University of Oxford, UK)
- “A History of Ancient DNA Research: A History of Celebrity Science,” Elizabeth Jones (University College London, UK)

Diseases, Disorders, Disabilities

Elizabethan A

Chair: Toby Appel (Yale University, USA)

- “Bacteriology and Immigrants’ Selection between Europe and Brazil in the Late 19th and Early 20th Centuries,” Fernanda Rebelo-Pinto (Federal University of Bahia, Brazil)
- “‘Know Your Risk’: Otto Schaefer’s Epidemiologic Investigations into Native-Canadian Cancer, 1953-1985,” Jennifer Fraser (University of Toronto, Canada)

Thursday, November 19, 1:30 PM – 3:30 PM

- “Regulating Alcohol at the End of the Twentieth Century: From Treating the Alcoholic to Protecting the Victims of the Alcoholic’s Behavior,” Erica O’Neil (Arizona State University, USA)
- “The Question of Prevention: Genetics, Disability, and Abortion 1960-1980,” Adam Turner (University of Oregon, USA)
- “One Elephant in the Room: Genetic and Social Aspects of Naming in Biomedicine,” Andrew Hogan (Creighton University, USA)

Internationalism

Kent Room

Chair: Travis Weisse (University of Wisconsin–Madison, USA)

- “The British Association for the Advancement of Science at War: Remaking Science-State Relations during the Great War,” Don Leggett (Nazarbayev University, Kazakhstan)
- “International Science in Japanese Eyes: Joji Sakurai, the International Research Council and the Pacific Science Association after the First World War,” Yoshiyuki Kikuchi (Graduate University for Advanced Studies, Japan)
- “Prince of Science: Albert I of Monaco (1848–1922),” Antony Adler (Harvard University, USA)
- “Self-Government for the Fittest: Stuart C. Dodd and the Internationalization of Public Opinion Research,” Tal Arbel (Harvard University, USA)
- “Exposing Human Rights,” Linda Marie Richards (Oregon State University, USA)

Knowledge in Motion

Essex Room

Chair: Vera Keller (University of Oregon, USA)

- “Knowledge Bound and Unbound: Circulating the Scientific Periodical in the 18th Century,” Noah Moxham (University of St Andrews, UK)
- “Rediscovering the Earth and the Universe: Tenkei Wakumon and Astronomy in Early Modern Japan,” Wei Yu Wayne Tan (Harvard University, USA)
- “Alpini’s *Balsam*: Natural Knowledge across the Eastern Mediterranean,” Barbara Di Gennaro (Yale University, USA)
- “Geographical Knowledge and the Geography of Knowledge in Central America, c. 1780-1840,” Sophie Brockmann (School of Advanced Study, University of London, UK)
- “Principles of Correspondence: What PAM Dirac’s Correspondence Says About Scientific Communication,” Aaron Wright (Harvard University, USA)

Religion and Science*Victorian Room*

Chair: Adam Mosley (Swansea University, UK)

- “Biblical History in the Natural Philosophy of John Wallis (1616-1703),” Adam Richter (University of Toronto, Canada)
- “The Heresies of Bruno and Galileo,” Alberto Martinez (University of Texas at Austin, USA)
- “Politics, the Brain, and Public Health: The Deployment of Medical Knowledge in Late Antique Sermons,” Jessica Wright (Princeton University, USA)
- “The Epistemology of Collecting: Artists’ and Artisans’ Collections in Early Seventeenth-Century Antwerp,” Marlise Rijks (Ghent University, Belgium; Max Planck Institute for the History of Science, Germany)

Rethinking Place and Space*Hampton Room*

Chair: Sheila Rabin (Saint Peter’s University, USA)

- “Mathematical Qualities of Boundary and the Changing Content and Practice of English Land Law, 1520-1620,” Jason Rozumalski (University of California, Berkeley, USA)
- “Americanizing Lavoisier: ‘French Chemistry,’ Class, and the Making of American Science, 1797-1799,” Thomas Apel (Menlo College, USA)
- “Collecting Evolution: The 1905-06 Galápagos Expedition from the California Academy of Sciences,” Matthew James (Sonoma State University, USA)

Science Pedagogy and Education*Yorkshire Room*

Chair: Emily Redman (University of Massachusetts Amherst, USA)

- “The Elephant in the Room: Presence, Performance and Pedagogy in Nineteenth-Century Object Lessons,” Melanie Keene (University of Cambridge, UK)
- “Sir Oliver Lodge: Physicist and Public Educationist,” Shawn Bullock (Simon Fraser University, Canada)
- “Animated Mathematics: Ludwig Muench’s Experimental Cartoons,” Anja Sattelmacher (Max Planck Institute for the History of Science, Germany)
- “Mathematics Education under the Nazis,” Samuel Huneke (Stanford University, USA)
- “The Teaching of Biological Evolution in Mexico,” Erica Torrens (National Autonomous University of Mexico, Mexico)

Tests and Standards*Olympic Room*

Chair: Victoria Höög (Lund University, Sweden)

- “From Fat to Weight: Fatness as a Health Risk in Dutch Newspaper Ads, 1890–1940,” Hieke Huistra (Utrecht University, Netherlands)
- “Experiments in the Silence Room: Phyllis M.T. Kerridge’s Experiments on Hearing Loss,” Jaipreet Viridi-Dhesi (Brock University, Canada)
- “The American High School Today: James Bryant Conant and the Marshalling of Talent,” Jim Porter (Michigan State University, USA)
- “From Amateur Psychology to Corporate America: The Case of the Myers-Briggs Type Indicator,” Kira Lussier (University of Toronto, Canada)
- “Organized Projections: David C. McClelland and the Business of the Thematic Apperception Test, 1963-1989,” Matthew Hoffarth (University of Pennsylvania, USA)

The Well-Tempered Self*Elizabethan C*

Chair: Carol Pal (Bennington College, USA)

- “Smallpox, Female Sensitivity, and Inoculation Rhetoric in Early Modern England,” Clara Steinhagen (University of Toronto, Canada)
- “The Utility of the Spleen: The Body, Medicine, and Aesthetic Judgment in Eighteenth-Century London,” Alexander Wragge-Morley (New York University, USA)
- “Science, Movie Censorship, and the Sanctity of the Soul on the Silver Screen,” David Kirby (University of Manchester, UK)
- “Making and Unmaking Madness with LSD: From Psychotomimetic to Psychedelic and Back Again,” Robert Schraff (University of California, Los Angeles, USA)
- “Televising Psyche: The Hippies, Cybernetics and the Birth of Video Psychotherapy,” Carmine Grimaldi (University of Chicago, USA)

3:30 PM – 3:45 PM

Coffee Break

Mezzanine Lobby, Elizabethan B

3:45 PM – 5:45 PM

(NOTE: Each presenter will have 24 minutes)**Chemistry in Action***Oxford Room*

Chair: David Sacks (Reed College, USA)

- “Lifeblood: Chemistry of Blood in Eighteenth-Century Medicine,” Ruben Verwaal (University of Groningen, Netherlands)
- “Boerhaave’s Mineral Chemistry and Its Influence on Eighteenth-Century Pharmacy in the Northern Netherlands,” Marieke Hendriksen (University of Groningen, Netherlands)
- “The Fashioning of a Philosophical Chemist: The *Philosophical Transactions* Papers of James Keir (1776, 1787 and 1790),” Kristen Schranz (University of Toronto, Canada)
- “Condensed Meat and Bread for the ‘Best Fed Army in the World’: Eben Norton Horsford’s Marching Ration for the Union Army in the Civil War,” Molly Laas (University of Wisconsin–Madison, USA)

Epistemic Practices*Elizabethan A*

Chair: Christopher Crenner (University of Kansas Medical Center, USA)

- “Tracing Interior Landscapes: Chinese Medical Epistemologies and Representations of Jingluo (1948-1966),” Lan Li (Massachusetts Institute of Technology, USA)
- “Sensing Theory and Crafting Proof: The History of a Twentieth-Century Mathematics Problem,” Clare Kim (Massachusetts Institute of Technology, USA)
- “Micro-RNA Research: A Case for Reductionism in Post-Genomic Molecular Genetics,” Valerie Racine (Arizona State University, USA)
- “The Biology of the Spherical Horse and the Molecular Orientation of Life, 1917-1972,” Daniel Liu (Chemical Heritage Foundation; University of Wisconsin–Madison, USA)

Genetics and Eugenics*Victorian Room*

Chair: Kele Cable (University of Minnesota, USA)

- “For the Betterment of Mankind: Ideas about Selective Breeding in French and German Enlightenment Thinking,” Maren Lorenz (Ruhr University Bochum, Germany)
- “Davenport in Japan: (Broken) Circuits in Transnational Genetics and Eugenics after World War II,” Kristin Roebuck (Cornell University, USA)

- “On the ‘Americanization’ of Postwar Korean Science: Yung-sun Kang and the Origin of Human Population Genetics in South Korea,” Jaehwan Hyun (Seoul National University, South Korea)
- “Human Genetics in Cold War Mexico and Transnational Science: Human Population Genetics in the Work of Rubén Lisker and Alfonso León de Garay,” Ana Barahona (National Autonomous University of Mexico, Mexico)
- “Science Policy on Medical Genetics: Knowledge and Values of Human Heredity in the Swedish Welfare State,” Anna Tunlid (Lund University, Sweden)

Historical Narratives*Olympic Room*

Chair: David Hecht (Bowdoin College, USA)

- “Chemists’ Histories and the History of Chemistry,” Catherine Jackson (University of Wisconsin–Madison, USA)
- “Replicating Heinrich Hertz’s Electromagnetic Wave Experiment in 1887,” Chen-Pang Yeang (University of Toronto, Canada)
- “Telling the Origins of the Neutral Theory of Ecology,” William Bausman (University of Minnesota, USA)
- “Interpreting Oral Histories in Studies of Contemporary Science: The Case of Recombinant DNA Technology,” Mark Jones (Life Sciences Foundation, USA)
- “Nobel Prizes and the Construction of Innovation Narratives: The Case of the Blue LED,” Benjamin Gross (Chemical Heritage Foundation, USA)

Managing Information, Analyzing Systems*Essex Room*

Chair: Heidi Knoblauch (Bard College, USA)

- “Raw Data: The Geopolitical History of Hard Drive Technology, 1978-1995,” Zane Cooper (California State University San Marcos, USA)
- “Biomedicine, Hospital Life, and the Invention of ARPANET,” David Theodore (McGill University, Canada)
- “Undertaking the Neuro: Brain Banks and the Postmortem Production of Mental Illness,” Scott Phelps (McGill University, Canada)
- “Science, Technology, and the Reagan-Era Defense Buildup: The Management of Weapons Acquisition in the Department of Defense, 1981-1989,” Thomas Lassman (Smithsonian National Air and Space Museum and Historical Office, Office of the Secretary of Defense, USA)
- “Situating Data in the Archives: Facilitating Scientific Reuse, Humanistic Study, and the Preservation of a Future Record of Science,” Bethany Anderson (University of Illinois at Urbana-Champaign, USA)

Scientific Representation*Yorkshire Room*

Chair: Courtney Thompson (Yale University, USA)

- “‘This story, which has the style of a novel, [...] is in reality a clinical observation’: Representing Hypnotism between Science and Literature in Late Nineteenth-Century France,” Kim Hajek (University of Queensland, Australia)
- “Envisioning Nature: Four Competing Nineteenth-Century Diagrams of the Living World,” Greg Priest (Stanford University, USA)
- “Why Did Ernst Haeckel Copy Wilhelm Giesbrecht’s Copepod Drawings?” Katharina Steiner (University of Zurich, Switzerland)
- “Performing Trigonometry: Scientific Parody and Women’s Mathematical Abilities in Late-Nineteenth-Century America,” Andy Fiss (Michigan Technological University, USA)
- “Evangelizing Science: Scientific Expertise and the Aesthetics of Wonder in Irwin Moon’s Film Series Sermons from Science, 1945-1960,” William Macauley (University of Manchester, UK)

State and Nation*Hampton Room*

Chair: David K. Robinson (Truman State University, USA)

- “From Trivial Amusement to Heroic Science: French Ballooning in the Wake of the Franco-Prussian War,” Patrick Luiz De Oliveira (Princeton University, USA)
- “Statistics or State-istics? A History of Scientific Representations of the Nation-State (Belgium, 1846-1947),” Kaat Louckx (Ghent University, Belgium)
- “A Science Policy by Accident? Historical Perspectives on Science and the Canadian state, 1968 – 1980,” Rebecca Moore (University of Toronto, Canada)
- “‘To live as reptiles in our desert of Mapimi’: From Revolutionary Science to the New Cosmopolitan Biology of Conservation in Twentieth Century Mexico,” Julio Diaz (National Autonomous University of Mexico, Mexico)

Textual Studies*Sussex Room*

Chair: Shannon K. Supple (University of California, Berkeley, USA)

- “Tommaso Del Garbo on Conception: A Reappraisal,” Kurt Boughan (The Citadel, USA)
- “Teaching Astronomy in Medieval Western Europe: The *Dragmaticon* as Predecessor to *De Sphaera*,” James Brannon (University of Wisconsin–Madison, USA)
- “Visual Scholia in the Margins,” Eunsoo Lee (Stanford University, USA)
- “The Koran and Copernicus in Nuremberg, 1543: Linguistics, Censorship, and Europe’s Eastward Gaze on the Eve of the Scientific Revolution,” Karl Galle (American University in Cairo, Egypt)

- “Dr. Louis Godeffroy’s Personal Encyclopedia: A Seventeenth-Century French Doctor’s Attempt to Organize Knowledge?” Sarah Lewis-Descamps (Yale University, USA)

Time and Temporality*Kent Room*

Chair: Julia Bursten (San Francisco State University, USA)

- “G. Evelyn Hutchinson’s Geochronometric Laboratory and the Construction of Ecological Time,” Laura Martin (Harvard University, USA)
- “Calculating Carbon: Interdisciplinary Science, Radiometric Dating and Evolutionary Time, 1900-1952,” Emily Kern (Princeton University, USA)
- “The Scale of Change: Paleoecologists and Discussions of Global Change Science,” Melissa Charenko (University of Wisconsin–Madison, USA)
- “Beyond ‘Predict and Control’: The Emergent Futures of 1970s Business Scenario Planning,” Bretton Fosbrook (York University, Canada)

Tracing Scientific Actors*Elizabethan C*

Chair: Brenda Kellar (Oregon State University, USA)

- “The Horse’s Mouth: Citizen Science in American Sporting Weeklies,” Brian Tyrrell (University of California, Santa Barbara, USA)
- “Practising Medicine in a Segregated World,” Harshad Topiwala (University of Kent, UK) and Anna Greenwood (Nottingham University, UK)
- “In the Field: The Transformation of Biological Research in Post-Colonial Kenya,” Amanda Lewis (Michigan State University, USA)
- “Enlightenment Ethnobotany: Plants, Print and Practice in the Late-Eighteenth-Century Pacific,” Geoff Bil (University of British Columbia, Canada)
- “Chemistry and Commerce in the Dutch East India Company: German Experts in Southeast Asian Gold Mines,” Matthew Sargent (University of Southern California, USA)

6:00 PM – 7:30 PM

Plenary Session: Passing the Book: Bringing Early Modern Readers to Life*Colonial Room (Mezzanine Level)*

This session will reconstruct and re-enact the formation of one of colonial New England’s most important collections of annotated books: the library of John Winthrop, a founder and governor of the Massachusetts Bay Colony, and his family. From alchemy to ancient history, medicine to hop-brewing, the Winthrop library captures a trans-Atlantic world of knowledge. The books’ past owners provide an impressive *dramatis personae*: John’s father, Adam Winthrop, a Cambridge-educated lawyer; John’s son, John Jr., an entrepreneur and alchemist who served as governor

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of Connecticut and became a Fellow of the Royal Society; and some female members of the family, notably Adam's wife Anne. Some books came from the library of the great Elizabethan astrologer and magus John Dee. Others were sent by influential figures in seventeenth-century science, including the antiquarian Elias Ashmole, mathematician Edward Howes, and Dee's son, Arthur – allowing us to follow the transmission of learned disciplines across the Atlantic.

Participants:

Ann Blair (Harvard University, USA)

Jennifer Rampling (Princeton University, USA)

Frederic Clark (New York University, USA)

Anthony Grafton (Princeton University, USA)

Madeline McMahon (University of Cambridge, UK)

Richard Calis (Princeton University, USA)

7:45 PM – 8:45 PM

Opening Reception

California East and West, Elizabethan B, C, and D

Light hors d'oeuvres and cash bar at the opening of the book exhibit.

The Opening Reception is sponsored the University of Chicago Press.

How Studying the Past Can Make a Difference to the Future: How to Engage with Government and Beyond Using the History of Science

Elizabethan A

A facilitated panel sponsored by the Joint Caucus for Socially Engaged Philosophers and Historians of Science (JCSEPHS)

Facilitator: Janet Stemwedel (San Jose State University, USA)

Participants:

- Rachel A. Ankeny (University of Adelaide, Australia)
- James Fleming (Colby College, USA)
- Vivette García Deister (National Autonomous University of Mexico, Mexico)
- Noortje Jacobs (Maastricht University, Netherlands)
- Yi-Ping Lin (National Yang-Ming University, Taiwan)
- Jane Maienschein (Arizona State University, USA)

9:00 PM – 11:00 PM

HSS Graduate and Early Career Caucus Mixer

Golden Gate Tap Room – 449 Powell St.

Thursday, November 19, 9:00 PM – 11:00 PM

Graduate students and early careerists are heartily welcomed to join your fellow (maybe not so) young'uns at the Golden Gate Tap Room for pub snacks, refreshments, and stimulating conversation. The Tap Room is one block north of the meeting hotel, on the same side of Powell Street.

This event is sponsored by: the Department of the History of Science, University of Wisconsin–Madison; the History and Philosophy of Science Graduate Program at the University of Notre Dame; David Kaiser, MIT Gemeshausen Chair funds.

FRIDAY, NOVEMBER 20, 2015

7:30 AM – 8:45 AM

Women's Caucus Breakfast

St. Francis Suite – East Room (12th Level)

Tickets can be purchased at the registration desk. Graduate students and others without tickets are invited and welcome to attend.

Osiris Editorial Board Breakfast

The Oak Room Restaurant (1st Level)

9:00 AM – 11:45 AM

Note: Coffee break 10:00 – 10:15 AM
California East and West, Mezzanine Lobby

Back with a Flourish: Social and Epistemic Factors in the Postwar Renaissance of General Relativity

Elizabethan A

Chair and Organizer: Roberto Lalli (Max Planck Institute for the History of Science, Germany)

Co-Organizer: Alexander Blum (Max Planck Institute for the History of Science, Germany)

Commentator: Diana Kormos-Buchwald (California Institute of Technology, USA)

- “Coordinated Blasts: H-Bomb Simulations and the Origins of Numerical Relativity,” David Kaiser (Massachusetts Institute of Technology, USA)
- “From Dense Matter to Gravitational Collapse: Preparing the Emergence of Relativistic Astrophysics,” Luisa Bonolis (Max Planck Institute for the History of Science, Germany)

Friday, November 20, 9:00 AM – 10:45 AM

- “A Farewell to Unification: How the Failure of Quantum Gravity Research Drove the Renaissance of Relativity,” Alexander Blum (Max Planck Institute for the History of Science, Germany)

Biography as Historiographical Genre: Examples from Nineteenth-Century Germany

Sussex Room

Chair and Commentator: Deborah Coen (Barnard College, Columbia University, USA)

Organizer: Peter Ramberg (Truman State University, USA)

- “Friedrich Wilhelm Bessel and the Geopolitics of Biography,” Kathryn Olesko (Georgetown University, USA)
- “Scientific Celebrity: The Paradoxical Case of Emil du Bois-Reymond,” Gabriel Finkelstein (University of Colorado Denver, USA)
- “Historiographical Advantages of Biography: Helmholtz as Example,” David Cahan (University of Nebraska–Lincoln, USA)
- “The Education and Exile of the Chemist Johannes Wislicenus (1835-1902),” Peter Ramberg (Truman State University, USA)

The Darwinian Revolution in Victorian Literature

Elizabethan C

Chair: Mark Borrello (University of Minnesota, USA)

Organizer: Ian Hesketh (University of Queensland, Australia)

- “Darwin and the Eye,” Meegan Kennedy (Florida State University, USA)
- “Darwin and the Sensation Novelists,” Jonathan Smith (University of Michigan–Dearborn, USA)
- “Charles Kingsley, ‘An Excellent Darwinian,’” Piers Hale (University of Oklahoma, USA)
- “Darwin and the Historians,” Ian Hesketh (University of Queensland, Australia)
- “Debunking the Myth of the ‘Non-Darwinian Revolution,’” Michael Ruse (Florida State University, USA)

Form and Formalism

Essex Room

Chair and Organizer: Alma Steingart (Harvard University, USA)

Commentator: Lorraine Daston (Max Planck Institute for the History of Science, Germany)

- “Greek Mathematical Form: Beginnings,” Reviel Netz (Stanford University, USA)
- “Christ³ or the Geometry of Jesus in the Central Middle Ages,” Megan C. McNamee (University of Michigan, USA)

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- “Formfitting: Solidifying Bodies in Sixteenth-Century Europe,” Noam Andrews (Harvard University, USA)
- “Formalizing Abstractions in Cold War Mathematics,” Alma Steingart (Harvard University, USA)

Human Nature in the Public Eye

Yorkshire Room

Chair and Commentator: Jamie Cohen-Cole (George Washington University, USA)

Organizers: Debbie Weinstein (Brown University, USA) and Erika Milam (Princeton University, USA)

Sponsored by the Forum for History of Human Science.

- “The Ascent of Man and the Politics of Humanity’s Evolutionary Future,” Erika Milam (Princeton University, USA)
- “‘Freedom is the Recognition of Necessity’: Garrett Hardin’s Approach to Popular Science and Political Advocacy,” Jason Oakes (University of California, Davis, USA)
- “The Year that Criticizing Science Moved from Left to Right in the United States,” Myrna Perez Sheldon (Rice University, USA)
- “‘Bonobos do have more style’: Frans de Waal and Late 20th c. Explanations for War and Peace,” Debbie Weinstein (Brown University, USA)

The Materiality of Early Science

Victorian Room

Chair: Jacqueline Feke (University of Waterloo, Canada)

Commentator and Organizer: Courtney Roby (Cornell University, USA)

Sponsored by the Early Science Forum

- “Encyclopedic Clockwork: Technologies of Time,” Elly Truitt (Bryn Mawr College, USA)
- “The Astronomical Compendia of John Chortasmenos (c. 1404-1414), Patriarchal Notary, Teacher, and Copyist,” Anne-Laurence Caudano (University of Winnipeg, Canada)
- “The Fifteenth-Century Astrologers’ Codex as Toolbox: Exploring the Social Worlds of BL Add Ms 34603,” Richard Kremer (Dartmouth College, USA)
- “‘By Their Own Hands’: The Drawings of the Early Académie Royale des Sciences,” Katherine Reinhart (King’s College, University of Cambridge, UK)

Openness and its Discontents in the History of Scientific Information

Elizabethan B

Chair and Commentator: Gregory Radick (University of Leeds, UK)

Organizer: Iain Watts (Princeton University, USA)

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- “The Periodical Commons and the Tyranny of Distance in Science, 1790-1820,” Iain Watts (Princeton University, USA)
- “Public or Private? London Medical Lectures and the Journals that Printed Them, 1820-40,” Carin Berkowitz (Chemical Heritage Foundation, USA)
- “Access Fantasies at the Fin de Siècle,” Alex Csiszar (Harvard University, USA)
- ““They gave it away”: Building an International Policy for Data Sharing in the Human Genome Project,” Kathryn Maxson (Princeton University, USA)

Science and Empire: New Agents, Spaces, and Connections

Kent Room

Chair: Janet Browne (Harvard University, USA)

Commentator: Neil Safier (Brown University, USA)

Organizer: Jessica Ratcliff (Yale-NUS College, Singapore)

- “The East India Company, the Company’s Museum, and the Political Economy of Natural History in the Early Nineteenth Century,” Jessica Ratcliff (Yale-NUS College, Singapore)
- “From the Winds of the Bay of Bengal: Science, Empire and Self,” Sujit Sivasundaram (University of Cambridge, UK)
- “Moving Mountains: Maps, Ethnography, and the Making of Colonial North-East India and Upper Burma,” Thomas Simpson (University of Cambridge, UK)

Technologies, Data and DNA: Contemporary Histories of Genomics

Hampton Room

Chair: Ramya M. Rajagopalan (Life Sciences Foundation, USA)

Organizer: Christopher Donohue (National Human Genome Research Institute, USA)

- “Variations on a Chip: Polymorphisms, Microarrays, and Genomic Studies of Health and Disease,” Ramya M. Rajagopalan (Life Sciences Foundation, USA)
- “Beyond Ethics: The Scientific and Technological Development of the International HapMap Project 1998 to 2005,” Christopher Donohue (National Human Genome Research Institute, USA)
- “Group Categories in Population Genomics: How Well Do They Travel?,” Lisa Gannett (St. Mary’s University, Halifax, Canada)
- “Exploring MODs Culture and Communication: A History of Model Organism Databases (MODs) in Genomics Research,” Rachel A. Ankeny (University of Adelaide, Australia) and Sabina Leonelli (University of Exeter, UK)
- “Globalizing Genomics: The Emergence of the International Nucleotide Sequence Database Collaboration,” Hallam Stevens (Nanyang Technological University, Singapore)

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Thermometers Incorporated

Elizabethan D

Chair and Commentator: Jan Golinski (University of New Hampshire, USA)

Organizer: Yulia Frumer (Johns Hopkins University, USA)

- “The Usefulness of Thermometers: Instruments and the Chemical Arts in Eighteenth-Century Britain,” John Powers (Virginia Commonwealth University, USA)
- “Searching for Unknown: Thermometers in Early Nineteenth-Century Japanese Astronomy,” Yulia Frumer (Johns Hopkins University, USA)
- “Braided Science: Thermometers, Modern Ayurveda, and the Electromagnetism of Bile, c. 1870-1920,” Projit Mukharji (University of Pennsylvania, USA)
- “Mercurial Communications: On the Historical Conjunction of Telephone and Thermometer,” Jeremy Greene (Johns Hopkins University, USA)

Topographies and Geographies of the Body: Circulation and Locality in Early Modern Anatomical Knowledge

Oxford Room

Chair and Commentator: Craig Martin (Oakland University, USA)

Organizer: Maria Pia Donato (The National Center for Scientific Research, France)

- “Vesalius’s Skeletons and Vernacular Anatomy,” Cynthia Klestinec (Miami University, USA)
- “Papal Anatomy in the News: The Circulation of Anatomical Evidence in the Early Modern Catholic World,” Bradford Bouley (Pennsylvania State University, USA)
- “Putting Medical Dissection in its Place: Sites, Spaces, and Knowledge,” Maria Pia Donato (The National Center for Scientific Research, France)
- “Skeletons, Provenance, and Identity, 1650-1800,” Anita Guerrini (Oregon State University, USA)

Working with Paper: Gendered Practices in the History of Knowledge

Georgian Room (Mezzanine Level)

Chair: Elizabeth Siegel Watkins (University of California, San Francisco, USA)

Commentator: Sally Gregory Kohlstedt (University of Minnesota, USA)

Organizer: Carla Bittel (Loyola Marymount University, USA)

- “Paper Cures: Managing Knowledge and Health in the Early Modern Household,” Elaine Leong (Max Planck Institute for the History of Science, Germany)
- “Tools of the Phrenological Trade: Gender, Paper, and Practices in Antebellum America,” Carla Bittel (Loyola Marymount University, USA)
- “The Colorists: Hand-Coloring Maps in Modern Cartography,” Nils Güttler (Swiss Federal Institute of Technology in Zurich, Switzerland)

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- “Gendered Data: Paper Technologies and Labor Division in Nineteenth-Century Census Compilation,” Christine von Oertzen (Max Planck Institute for the History of Science, Germany)

11:00 AM – 11:45 AM

HSS at Work Business Meeting

Ascot Room

See p. xx for more information on HSS at Work.

12:00 PM – 1:15 PM

The Life of a Manuscript: From Proposal to Publication

Elizabethan B

Chair: Kimberly Hamlin (Miami University)

Sponsored by the HSS Women’s Caucus

Participants:

- Floris Cohen (Editor of *Isis*)
- Karen Merikangas Darling (Senior Editor, University of Chicago Press)
- Kimberly Hamlin (Miami University, USA)

Roundtable: Communicating Beyond the Ivory Tower

Chair and Organizer: Michal Meyer (Chemical Heritage Foundation, USA)

Sponsored by HSS at Work

Participants:

- “Turning Research into Magazine Stories,” Michal Meyer (Chemical Heritage Foundation, USA)
- “Digital Exposure and Academic Expertise,” Alex Wellerstein (Stevens Institute of Technology, USA)
- “From Museums to (Social) Media,” Benjamin Gross (Chemical Heritage Foundation, USA)
- “Digital Storytelling,” Carla Nappi (University of British Columbia, Canada)

Physical Sciences Forum Business Meeting and Distinguished Lecture

Elizabethan C

“2 Instruments and a Duality: Helmholtz’s Energie and Aesthetics,” M. Norton Wise (University of California, Los Angeles, USA)

See p. xx for more information on the Physical Sciences Forum.

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Forum for the History of Science in America Business Meeting

Victorian Room

See p. xx for more information on the Forum for the History of Science in America.

Earth and Environment Forum Business Meeting

Oxford Room

See p. xx for more information on the Earth and Environment Forum.

1:30 PM – 3:30 PM

Roundtable: Computational Methods in Network Analysis for the History of Science

Sussex Room

Chair, Commentator, and Organizer: Meredith Beck Sayre (Indiana University, USA)

- “Reconstructing a Network of Scholarly References,” Philip Palmer (University of California, Los Angeles, USA)
- “The Six Degrees of Francis Bacon,” Jessica Otis (Carnegie Mellon University, USA)
- “Best Practices for Using Digital History to Study Early-Modern Networks,” Marcelo Aranda (Stanford University, USA)
- “Vogon Web: Creating Contextualized Relationships Online,” Julia Damerow and Erick Peirson (Arizona State University, USA)

Roundtable: Diagrammatic Notation Systems

Kent Room

Chair and Organizer: Tamara Caulkins (Oregon State University, USA)

Commentator: Daniel Rosenberg (University of Oregon, USA)

- “William Herschel’s Mapping of the Cosmos,” Woodruff T. Sullivan III (University of Washington, USA)
- “Jakob Steiner’s Virtual Geometry,” Jemma Lorenat (Pitzer College, USA)
- “Euclid’s *Elements*,” Eunsoo Lee (Stanford University, USA)
- “Darwin’s Tree of Life,” Greg Priest (Stanford University, USA)
- “Movement Notation Systems in the *Encyclopédie*,” Tamara Caulkins (Oregon State University, USA)

Roundtable: Economies, More than Moral, and the History of Science

Hampton Room

Chair and Organizer: Dan Bouk (Colgate University, USA)

- “Japanese Microbial Gardens and Ecologies of Production,” Victoria Lee (Max Planck Institute for the History of Science, Germany)
- “White Paper, Gray Literature,” Courtney Fullilove (Wesleyan University, USA)
- “Istanbul, an Epistemic Clearinghouse,” B. Harun Küçük (University of Pennsylvania, USA)
- “Metropolitan Life’s Spinning Discs,” Dan Bouk (Colgate University, USA)

Roundtable: History of Science Society's Outreach to Historians of Science in India and South Asia

Oxford Room

Chair and Commentator: Angela Creager (Princeton University, USA)

Organizer: Somaditya Banerjee (University of Idaho, USA)

Participants:

- Somaditya Banerjee (University of Idaho, USA)
- Rajit Mazumder (DePaul University, USA)
- Gustave Lester (Harvard University, USA)

Roundtable: The Promises of Science: Historical Perspectives

Yorkshire Room

Chair and Organizer: Annette Mülberger (Autonomous University of Barcelona, Spain)

Commentator: Pedro Raposo (Adler Planetarium, USA)

- “Promises of Positivist Psychology (1855-1945),” Annette Mülberger (Autonomous University of Barcelona,, Spain)
- “Popular Astronomy and the Promise of ‘Social Peace’ Around 1900: The Case of Camille Flammarion,” Agustí Nieto-Galan (Autonomous University of Barcelona, Spain)
- “The Promise of Atomic Energy and the Contested Emergence of Atomic Expertise, 1945-1946,” Waqar Zaidi (Lahore University of Management Sciences, Pakistan)
- “Cheap Promises: Prescription Diets for People and Other Animals,” Anya Zilberstein (Concordia University, USA)

Roundtable: Recent Scholarship and Future Directions in the History of Cold War Science

Victorian Room

Chair and Organizer: Sarah Bridger (California Polytechnic State University, USA)

Participants:

- Paul Erickson (Wesleyan University, USA)
- Sarah Bridger (California Polytechnic State University, USA)
- Rebecca Lemov (Harvard University, USA)
- Jamie Cohen-Cole (George Washington University, USA)
- Joy Rohde (University of Michigan, USA)

Roundtable: Revising the History of Evolutionary Synthesis: The Sixties

Elizabethan B

Chair and Organizer: David Depew (University of Iowa, USA)

Commentator: Anya Plutynski (Washington University in St. Louis, USA)

- “Bibliometric History of the Modern Synthesis,” Jean Gayon (University Paris 1 Panthéon-Sorbonne, France)
- “The Molecular Basis of Evolution: From Excitement and Promises, to Confrontation.,” Edna Suárez Díaz (National Autonomous University of Mexico, Mexico)
- “Integrating Behavior Into the Synthesis,” Jean-Baptiste Grodwohl (Federal University of Bahia, Brazil)
- “Ecology and the Modern Synthesis,” Philippe Huneman (Institute for the History and Philosophy of Science and Technique, The National Center for Scientific Research, France)
- “The Changing Ideological Context of the Synthesis,” David Depew (University of Iowa, USA)

Roundtable: The Role of Biography in the History of the Physical Sciences

Elizabethan C

Chair and Organizer: Amy Fisher (University of Puget Sound, USA)

Co-Organizer: Joseph D. Martin (Michigan State University, USA)

Participants:

- Cathryn Carson (University of California, Berkeley, USA)
- David Cassidy (Hofstra University, USA)
- Lillian Hoddeson (University of Illinois at Urbana-Champaign, USA)
- Catherine Jackson (University of Wisconsin–Madison, USA)
- Joel Klein (Columbia University, USA)
- Mary Jo Nye (Oregon State University, USA)

Friday, November 20, 1:30 PM – 3:30 PM

Roundtable: Translation as an Epistemic Tool in the History of Science

Elizabethan D

Chair: Elaine Leong (Max Planck Institute for the History of Science, Germany)

Organizer: Sietske Fransen (Max Planck Institute for the History of Science, Germany)

- “The Introduction of ‘Chinese Medicine’ in Seventeenth-Century Europe,” Harold J. Cook (Brown University, USA)
- “Multilingualism in Early Modern Europe,” Sietske Fransen (Max Planck Institute for the History of Science, Germany)
- “Translation Imagined as Fluid Dynamics and Turbulent Flow,” Carla Nappi (University of British Columbia, Canada)
- “The Transfer of Scientific Illustrations from Nineteenth-Century Europe to East Asia,” Hansun Hsiung (Harvard University, USA)
- “Twentieth-Century Scholars and Their Attitude towards Anglophone Science,” Michael Gordin (Princeton University, USA)

Roundtable: Why Objects?

Elizabethan A

Chair: Berris Charnley (University of Oxford, UK)

Organizers: Jim Endersby (University of Sussex, UK) and Donald Opitz (DePaul University, USA)

- “Mice,” Nicole Nelson (University of Wisconsin–Madison, USA)
- “Orchid,” Jim Endersby (University of Sussex, UK)
- “Wax,” Jenny Boulboulé (Columbia University, USA)
- “Lily,” Donald Opitz (DePaul University, USA)
- “Potato,” Dominic Berry (University of Edinburgh, UK)

Roundtable: Worlds on Paper: How Do They Matter for History of Science?

Essex Room

Chair and Organizer: Andrew Mendelsohn (University of London, UK)

Participants:

- Alix Cooper (Stony Brook University, USA)
- Staffan Müller-Wille (University of Exeter, UK)
- Ann Blair (Harvard University, USA)
- Andrew Mendelsohn (University of London, UK)
- Volker Hess (Charité University Medicine Berlin, Germany)

Friday, November 20, 1:30 PM – 3:30 PM

Roundtable: Historians of Science in the Public Sphere

Georgian Room (Mezzanine Level)

Sponsored by the Joint Caucus for Socially Engaged Philosophers and Historians of Science (JCSEPHS)

Chair and Organizer: Joshua Howe (Reed College, USA)

Participants:

- Joshua Howe (Reed College, USA)
- Naomi Oreskes (Harvard University, USA)
- Jane Maienschein (Arizona State University, USA)
- Alice Dreger (Independent Scholar, USA)
- Robert Proctor (Stanford University, USA)

3:30 PM – 3:45 PM

Coffee Break

California East and West, Mezzanine Lobby

The Coffee Break is sponsored by the University of Chicago Press.

3:45 PM – 5:45 PM

Chemistry in (Practical) Context: Connecting Eighteenth-Century Chemistry to its Uses

Elizabethan D

Chair: James Voelkel (Chemical Heritage Foundation, USA)

Organizer: Carin Berkowitz (Chemical Heritage Foundation, USA)

Sponsored by the Forum for the History of the Chemical Sciences

- “A Mineralogical Geography: Chemists, Geologists, and Mapmakers in Eighteenth-Century Sweden,” Charlotte Abney Salomon (Yale University, USA)
- “Enlightened Icons: Lomonosov’s Mosaics Factory and the Uses of Chemistry,” Simon Werrett (University College London, UK)
- “Chemical Physiology in the Scottish Enlightenment: Affinities of Fevers, Asthma, and Bile,” John Stewart (University of Oklahoma, USA)
- “The Case of Coal: Reconsidering the Relationship between Science, Industry, Materials, and Governance at the End of the Long Eighteenth Century,” Lissa Roberts (University of Twente, Netherlands)

Friday, November 20, 3:45 PM – 5:45 PM

The Child as Biomedical Problem in Twentieth-Century America

Oxford Room

Chair and Organizer: Cindy Connolly (University of Pennsylvania, USA)

Commentator: Beth Linker (University of Pennsylvania, USA)

- “Preventing Pediatric Poisoning or Profits?: ‘Safety Caps’ for Children, 1948-1973,” Cindy Connolly (University of Pennsylvania, USA)
- “Resisting Scientific Mothering: Folk Practices, Medicine Men, and Old Ladies,” Janet Golden (Rutgers University-Camden, USA)
- “Medical Equipment as Child’s Play in the Mid-Twentieth Century,” Susan Lederer (University of Wisconsin School of Medicine, USA)

Doing Science Education “Right”

Victorian Room

Chair: Gregory L. Macklem (University of Notre Dame, USA)

Commentator: Adam Shapiro (Unaffiliated, USA)

Organizer: Dana Freiburger (University of Wisconsin–Madison, USA)

- “‘If well conducted’ - Teaching Science to Survive in Early Nineteenth-Century American Catholic Colleges,” Dana Freiburger (University of Wisconsin–Madison, USA)
- “Science Education as Civic Education: Clear Thinking and the Problem of Transfer, 1900-1945,” Michelle Hoffman (American University of Central Asia, Kyrgyzstan; Bard College, USA)
- “‘The humanism inherent to us.’ Reforming Science Education in Colombian Schools, 1975-1985,” Nicolas Sanchez-Guerrero (University of Toronto, Canada; Colegio Alemán Alexander von Humboldt, Mexico)

Early Modern Music and Acoustics

Sussex Room

Chair and Commentator: Axel Volmar (McGill University, Canada)

Organizer: Adam Fix (University of Minnesota, USA)

- “A Certain Correspondence: Pendulums and Musical Harmonies in Galileo’s Two New Sciences,” Maximilian Kemeny (University of Sydney, Australia)
- “Hammer and File: Robert Hooke’s Sound Development of Congruity and Incongruity,” Cindy Eric (University of Sydney, Australia)
- “A Science Superior to Music: Joseph Sauveur and the Estrangement of Music and Acoustics,” Adam Fix (University of Minnesota, USA)

Friday, November 20, 3:45 PM – 5:45 PM

Empire in Evolution: The Ambiguities of Human Diversity in Imperial Russia and the Soviet Union

Essex Room

Chair: Alexei Kojevnikov (University of British Columbia, Canada)

Organizer: Andy Byford (Durham University, UK)

- “Archimandrite Theophanes Reads Kant’s Anthropology: Entangled Concepts of Race in the Russian Empire,” Karl Hall (Central European University, Hungary)
- “The Imperial Roots of Early Soviet Ethnography: From Siberian Local Knowledge to Soviet Ethnographic Science,” Dmitry Mordvinov (University of British Columbia, Canada)
- “The Politics of ‘Development’ in 1920s-30s USSR: Imperial Normativities and Sciences of the Child,” Andy Byford (Durham University, UK)

Health and Wealth through Better Weather: The History of Meteorology and the Improvement of Nations

Elizabethan A

Chair and Organizer: Bridget Collins (University of Wisconsin–Madison, USA)

- “‘He ain’t sick. He’s just got the ager’: The Role of Medical Geography in the Decline of Malaria in the Upper Mississippi River Valley,” Bridget Collins (University of Wisconsin–Madison, USA)
- “From Appropriation to Biopolitics: Climate Knowledge as a Practice of Government,” Zeke Baker (University of California, Davis, USA)
- “Atmospherics of Illness: Cholera, Weather, and the Scientific Image,” Amanda Sciampacone (University of Warwick, UK)
- “Climate, Weather, and Cotton: Meteorology and Acclimatization in Napoleonic France and Italy,” Joseph Horan (Colorado School of Mines, USA)

Knowing “Nature” in the Ancient World

Elizabethan B

Chair and Organizer: Eduardo Escobar (University of California, Berkeley, USA)

- “Alexander/Iskander: Memorializing Ancient Science in Medieval India,” Owen Cornwall (Columbia University, USA)
- “Generating Natures in Aristotle,” Daryn Lehoux (Queen’s University, UK)
- “The Representation of Phenomena in Babylonian Astronomical Models,” Francesca Rochberg (University of California, Berkeley, USA)
- “The Morphology of ‘Natural’ Materials in Ancient Babylonia,” Eduardo Escobar (University of California, Berkeley, USA)

Friday, November 20, 3:45 PM – 5:45 PM

Mobile Medicines: Cross-Cultural Exchanges in the Colonial Americas

Hampton Room

Chair: Margaretta Lovell (University of California, Berkeley, USA)

Commentator: Kathleen Donegan (University of California, Berkeley, USA)

Organizer: Steffi Dippold (Kansas State University, USA)

- “Insidious Identities, Or When Poisons Became English,” Krista Turner (University of North Carolina, USA)
- “Andean Healers under Spanish Colonial Rule: Cinchona Bark in the Early Atlantic World,” Matthew James Crawford (Kent State University, USA)
- “A Mohawk Vomiting Stick: Odyssey of an Intercultural Object,” Steffi Dippold (Kansas State University, USA)

The Other Side of Tethys: Asia and the Making of Modern Geology

Kent Room

Chair: Fa-ti Fan (Binghamton University, USA)

Organizer: Pratik Chakrabarti (University of Manchester, UK)

- “Inscriptions of Nature: Discovering the Indian Gondwanaland,” Pratik Chakrabarti (University of Manchester, UK)
- “Dixue and the Making of a Chinese Geology,” Shellen Wu (University of Tennessee, USA)
- “Geomorphology and Indian Nationalism,” Joydeep Sen (University of Manchester, UK)
- “Shifting Grounds: Seismic Zoning in Early Communist China,” Fa-ti Fan (Binghamton University, USA)

Psychologies of Belief: Pragmatism and Action in the Fin de Siècle

Yorkshire Room

Chair and Commentator: Robert Brain (University of British Columbia, Canada)

Organizer: Francesca Bordogna (University of Notre Dame, USA)

- “Peirce, Clifford, Dispositions, and Scientific Practice,” Mathias Girel (École Normale Supérieure, Paris, France)
- “Psychology’s Lamentations: Theology, Pragmatism and the Human Sciences in the Fin de Siècle,” Larry McGrath (Wesleyan University, USA)
- “The ‘Doctrine of Fascism’ and Psychological Pragmatism,” Francesca Bordogna (University of Notre Dame, USA)

Suffering Made Global? Science and Law in a Toxic World

Georgian Room (Mezzanine Level)

Chair: Tal Golan (University of California, San Diego, USA)

Organizer: Doogab Yi (Seoul National University, South Korea)

Friday, November 20, 3:45 PM – 5:45 PM

- “Causation in Late Modernity,” Tal Golan (University of California, San Diego, USA)
- “Representing Korean Smokers before the Court: Science and the Mobilization of American Tobacco Litigation in Korea,” Doogab Yi and Jinyoung Park (Seoul National University, South Korea)
- “Industrial Hazards and Public Health Sciences in Contemporary Japan, Taiwan and Korea: A Tentative Analytical Framework,” Paul Jobin (Paris Diderot University, France)
- “Spectroscopy on Trial: Chili Powder, Country of Origin, and the Boundaries of Regulatory Science,” Buhm Soon Park (Korea Advanced Institute of Science and Technology, South Korea)

Technological Systems Large and Small: Physics and Industry in Postwar America

Elizabethan C

Chair and Organizer: Joseph D. Martin (Michigan State University, USA)

Co-Organizer: Amy Fisher (University of Puget Sound, USA)

Sponsored by the Physical Sciences Forum

- “The Simple and Courageous Course: Industrial Patronage of Basic Research at the University of Chicago, 1945–1951,” Joseph D. Martin (Michigan State University, USA)
- “Testing Out Tesla: The Role of Myth and Media in Challenging Technological Systems,” Pete Schmidt (Grossmont College, USA)
- “Selves, Measured, Measuring Nature,” Amy E. Slaton (Drexel University, USA)
- “Science, Technology, and Industry at the National Synchrotron Light Source,” Robert Crease (Stony Brook University, USA)

6:00 PM – 7:15 PM

HSS Distinguished Lecture

Colonial Room (Mezzanine Level)

Paula Findlen, Stanford University, USA

“Galileo’s Laughter: Knowledge and Play in the Renaissance”

Introduction by Florence Hsia (University of Wisconsin–Madison, USA)

Shortly after Galileo published his *Dialogue Concerning the Two Chief World Systems* (1632), the controversial Dominican theologian and philosopher Tommaso Campanella wrote to congratulate him for writing a great



“philosophical comedy.” Galileo famously experimented with many different ways of communicating science to his society, but what was the purpose and meaning of Galileo’s laughter? This talk explores Galileo’s relationship to the Renaissance idea of “playing seriously” (*serio ludere*). It discusses play as a Renaissance epistemology, a way of knowing and believing cultivated especially during the sixteenth century by many of the most interesting scientific, philosophical, and theological minds of this era. What were the sources that inspired this approach to knowledge? What were the consequences of playing seriously by the early seventeenth century? Why did Galileo choose to present himself, in the spirit of Democritus, as a laughing philosopher?

7:30 PM – 8:30 PM

HSS Poster Session and Reception

Grand Ballroom (Mezzanine Level)

Light hors d’oeuvres and a cash bar. The poster presenters will be with their posters to discuss their work with you.

The Friday evening Reception is sponsored by the UCSF Center for the Humanities and Health Sciences.

Note: Posters will be on display in various locations on the 2nd level from 1:00 – 6:00 pm.

- “From ‘Views of Nature’ to Views of Justice: Mapping the Evolution of Alexander von Humboldt’s Weltbürgertum,” Patrick Anthony (Vanderbilt University, USA)
- “Teaching Undergraduates: Scientific Communication and Leonhart Fuchs,” Emily Beck (University of Minnesota, USA)
- “Science in the Theater: A New Way of Examining the History of Science,” Bruce Coughran (Independent Scholar, USA)
- “Are You Sure? How Historical Images Can Shake Up Text-Based Narratives,” Pamela Henson (Smithsonian Institution, USA)
- “How to Disappear 150 Years and Not be Forgotten: Lessons from the Visual Culture of the Royal Botanical Expedition to New Spain (1787-1803),” Diana Heredia (National Autonomous University of Mexico, Mexico)
- “Vernacular Land Surveying : Hybrid Cartography and Metrology in Quebec and Louisiana, 1760-1820,” Julia Lewandoski (University of California, Berkeley, USA)
- “Linnaeus’ Anthropomorpha,” Monica Libell (Lund University, Sweden)
- “The Use of Images in Studying the First Fossil Hominins: The Neandertals,” Paige Madison (Arizona State University, USA)
- “Life and Philosophy Branching: Lamarck’s Evolutionary Legacy,” Ricardo Noguera-Solano, Juan Manuel Rodriguez-Caso, Diana Buzo-Zarzosa, and Rodrigo Bustillo-Ramirez (National Autonomous University of Mexico, Mexico)

- “Television Magic: The Early Wizards of Science Educational Broadcasting,” Ingrid Ockert (Princeton University, USA)
- “Computational Approaches in Understanding Evolutionary Medicine,” Deryc Painter (Arizona State University, USA)
- “Mortal Cells for Sale: Lifespan, Contamination, and Business of Leonard Hayflick’s Cells,” Hyung Wook Park (Nanyang Technological University, Singapore)
- “Selling (Out?) Science with H. G. Wells’ ‘Things to Come,’” Danielle Picard (Vanderbilt University, USA)
- “Drawing Embryos Together: Images and Observation in Late Nineteenth Century Cell Lineage Studies,” Beatrice Steinert (Brown University, USA)
- “Early Television as an Aid to Astronomy,” Samantha Thompson (Lowell Observatory, USA)
- “Green Numbers: From Limits to Growth to Sustainability,” Henry Trim (University of California, Santa Barbara, USA)

SATURDAY, NOVEMBER 21, 2015

7:30 AM – 8:45 AM

Committee on Education

The Oak Room Restaurant (1st Level)

9:00 AM – 11:45 AM

Note: Coffee break 10:00 – 10:15 AM

California East and West, Mezzanine Lobby

The Coffee Break is sponsored by Bonhams.

Before the Law: Points of Origin in Encounters between Law & Science

Georgian Room (Mezzanine Level)

Chair and Commentator: Mario Biagioli (University of California, Davis, USA)

Organizer: Mary Mitchell (University of Pennsylvania, USA)

- “Knowing the Body in Law and Science,” Kara Swanson (Northeastern University, USA)
- “The Math in the Machine: Spectrometry at Mobil Oil and the History of Software Patenting, 1961-1972,” Gerardo Con Diaz (Yale University, USA)

Saturday, November 21, 9:00 AM – 11:45 AM

- “Whose Bodies Count?: Performing the Legality of Nuclear Testing at the Argonne National Laboratory,” Mary Mitchell (University of Pennsylvania, USA)

From the Example of the Exploratorium towards a History of Interactivity

Elizabethan A

Chair and Commentator: Karen Rader (Virginia Commonwealth University, USA)

Organizer: Arne Schirmmacher (Humboldt University of Berlin, Germany)

- “The Origins of the Exploratorium and the Development of its Interactive Exhibits Paradigm,” Rob Semper (The Exploratorium, San Francisco, USA)
- “Objects in Transit: On the Mobility of Interactives between Science Museums and Science Centers in Europe and Northern America,” Arne Schirmmacher (Humboldt University of Berlin, Germany)
- “Interactivity and Science Fairs in Contemporary America,” Sarah Scripps (University of Wisconsin–Stevens Point, USA)
- “The Next Level of Play: Scientific Research and the Gamification of Techne,” Jean-François Gauvin (Collection of Historical Scientific Instruments, Harvard University, USA)

Heredity Data: Documenting Human Inheritance from the Rise of Eugenics to the Second World War

Elizabethan D

Chair and Commentator: Soraya de Chadarevian (University of California, Los Angeles, USA)

Organizer: Luc Berlivet (The National Center for Scientific Research; School for Advanced Studies in the Social Sciences, France)

- “Abundant Data, Missing Evidence: The Quest for Hereditary Traits and the Method of the Italian Positivist School,” Angelo Matteo Caglioti (University of California, Berkeley, USA)
- “In Opposition to All My Prepossessions’: Data, Ratios, and the Evidence of Medical Mendelism,” Theodore Porter (University of California, Los Angeles, USA)
- “Pooling Data. Corrado Gini’s Field Investigations and the Quest to Weight Heredity Against Environment,” Luc Berlivet (The National Center for Scientific Research; School for Advanced Studies in the Social Sciences, France)
- “Fishing for Proband. Approaches to Human Heredity in Interwar Germany,” Bernd Gausemeier (Max Planck Institute for the History of Science, Germany)

Saturday, November 21, 9:00 AM – 11:45 AM

Historical and Theoretical Approaches to Comparison in the History of Ancient Science

Sussex Room

Chair and Commentator: Mark Csikszentmihályi (University of California, Berkeley, USA)

Organizer: Karine Chemla (The National Center for Scientific Research; Paris Diderot University, France)

- “Translating Chinese Concepts into European Models,” Michael Nylan (University of California, Berkeley, USA)
- “Comparative Views of Human Taxonomies,” Lisa Raphals (University of California, Riverside, USA)
- “Comparisons in Early Historiographies of Mathematics in Ancient China,” Karine Chemla (Paris Diderot University, France)
- “History of Mathematics, the Crisis of the European Sciences and The Humboldtian Tradition,” Ivahn Smadja (Paris Diderot University, France)

New Perspectives on the Ether in Early Twentieth-Century Physics and Art

Yorkshire Room

Chair: Massimiliano Badino (Massachusetts Institute of Technology, USA)

Organizer: Scott Walter (University of Lorraine, France)

- “The Many Faces of the Ether in Early Twentieth-Century Physics,” Jaume Navarro (University of the Basque Country, Spain)
- “Italian Futurism and the Ether: Umberto Boccioni’s Elasticity and Unique Forms of Continuity in Space,” Linda Dalrymple Henderson (University of Texas at Austin, USA)
- “Lorentz’s Ether, Poincaré’s Amorphous Continuum, and Einstein’s Rejected-Redefined ‘Ether’-Spacetime: Einstein’s Revolutionary Physical Universe in a Revolutionizing Mathematical World,” Connemara Doran (Harvard University, USA)
- “Poincaré on Clocks and Radio Waves in the Ether,” Scott Walter (University of Lorraine, France)
- “Mach’s Ether, Einstein’s Ether, and the Debate between Relativists and Their Critics,” Richard Staley (University of Cambridge, UK)

Panaceas, Preparations, Poison, and Proof: Universal Remedies in Early Modern Europe

Victorian Room

Chair: Margaret Garber (California State University, Fullerton, USA)

Organizer: Joel Klein (Columbia University, USA)

- “The Universals and Particulars of Poison in the Sixteenth Century,” Fred Gibbs (University of New Mexico, USA)

Saturday, November 21, 9:00 AM – 11:45 AM

- “Poison Antidotes, Panaceas, and Proof in Sixteenth-Century Europe,” Alisha Rankin (Tufts University, USA)
- “The Subtleties of Enterprise: Curiosities, Preparations, and Performances in the Printed Luxuries of Leonhard Thurneysser,” Bruce Moran (University of Nevada, Reno, USA)
- “Rivers Run Potable Gold: Skepticism, Credulity, and the Legacy of Experimental Failure,” Joel Klein (Columbia University, USA)
- “Robert Boyle’s Medical Recipes: Efficacy, Trials, and Experimentation,” Michelle DiMeo (Chemical Heritage Foundation, USA)

The Quest for Universality: National and Transnational Perspectives on Nineteenth-Century Cell and Reproduction Research

Essex Room

Chair and Commentator: Ohad Parnes (Max Planck Institute for History of Science, Germany)

Organizer: Florence Vienne (Technische Universität Braunschweig, Germany)

- “Give me a cell and I will disclose all forms of the organized world for you’: Raspail’s and Schwann’s Search for a Common Origin of Organic Life,” Florence Vienne (Technical University Braunschweig, Germany)
- “Diversity or Unity? The Reception of Mohl’s and Schleiden’s Cell Studies in Italy in the 1830s and 1840s,” Ariane Dröscher (University of Bologna, Italy)
- “Visions of Cells and Sexual Differences in the Works of Claude Bernard and Charles Robin in Republican France,” Marion Thomas (University of Strasbourg, France)
- “Reproducing Science: William B. Carpenter and the British Reception of German Ideas on Generation, 1839-1854,” Lynn K. Nyhart (University of Wisconsin–Madison, USA)

Race Science in the Latin World in the Twentieth Century

Hampton Room

Chair: Warwick Anderson (University of Sydney, Australia)

Commentator: Gabriela Soto Laveaga (University of California, Santa Barbara, USA)

Organizer: Sebastián Gil-Riaño (University of Sydney, Australia)

- “Changing Practices of Race Science in Twentieth-Century Mexico,” Vivette García Deister and Carlos López Beltrán (National Autonomous University of Mexico, Mexico)
- “Latinizing Modernization: Neo-Lamarckism and the Human Sciences in the Andean Indian Mission during the 1950s,” Sebastián Gil-Riaño (University of Sydney, Australia)
- “Luso-Colonial Race Science and the ‘Timor Anthropological Mission’, 1953-1974,” Ricardo Roque (University of Lisbon, Portugal)

Saturday, November 21, 9:00 AM – 11:45 AM

- “Religion of Life: Latin Eugenics as Laboratory (Testing Ground?),” Sarah Walsh (University of Sydney, Australia)

Rationality Unbound: New Perspectives on the Postwar Human and Social Sciences

Oxford Room

Chair and Commentator: Joy Rohde (University of Michigan, USA)

Organizer: Marie Burks (Massachusetts Institute of Technology, USA)

- “Macroeconomics Goes Nuclear: Thomas Schelling and the Rational Mechanics of Nuclear War,” Benjamin Wilson (Max Planck Institute for the History of Science, Germany)
- “Tragic Commons and Rational Actors: Theory and Practice in Common Pool Resource Studies, 1930s-1990s,” Paul Erickson (Wesleyan University, USA)
- “The Truth about Hearts and Minds: Psychology, Development, and Counterinsurgency in the Postwar British Empire,” Erik Linstrum (University of Virginia, USA)
- “Inside the ‘Problem-Solving Workshop’: Defining a New Role for the Social Scientist in International Conflict Resolution,” Marie Burks (Massachusetts Institute of Technology, USA)

Scientific Workspaces: Reconstruction and Representation

Elizabethan C

Chair and Commentator: William Rankin (Yale University, USA)

Organizer: Megan Shields Formato (Stanford University, USA)

- “‘The Highlands of this Kingdom’: Antiquities, Fossils, and the Representation (and Reconstruction) of the Field in Eighteenth-Century Britain,” Elizabeth Yale (University of Iowa, USA)
- “Where We Worked: Understanding Place in Historic Industrial Preservation,” David Unger (Public Historian, USA)
- “Engineering Systems of Order in E.L. Mark’s Zoological Laboratory,” Jenna Tonn (Harvard University, USA)
- “The Physicist at Work: Iconography and Practice,” Megan Shields Formato (Stanford University, USA)

Temporalities of Life

Elizabethan B

Chair and Commentator: Tiago Moreira (Durham University, UK)

Organizer: Jenna Healey (Yale University, USA)

- “Intergenerationality: Conceptions of Time in Non-Genetic Theories of Intergenerational Inheritance,” Sarah Richardson (Harvard University, USA)

- “Voices of Expertise: Age, Aging, and the Lifecourse in ‘Developing’ and ‘Developed’ Societies in Late Colonial Asia and Africa,” Kavita Sivaramakrishnan (Columbia University, USA)
- “‘Distilled Development’ in Yeast: Cellular Differentiation in Evolutionary Time,” Erika Langer (University of California, San Francisco, USA)
- “Geriatric Generation: The Infertility Industry and the Biology of Reproductive Aging,” Jenna Healey (Yale University, USA)

Touch in Early Modern Science and Medicine

Kent Room

Chair: Tawrin Baker (University of Pittsburgh, USA)

Organizer: Karin Ekholm (St. John’s College, USA)

- “The Children of Anaxagoras,” Pablo Maurette (University of Chicago, USA)
- “Teaching, Learning, Feeling: Touch and the Public Anatomy Lesson,” Allen Shotwell (Indiana University, USA)
- “The Power of Touch, the Power to Feel: Tactile Sensation in Harvey’s Account of Animal Generation,” Karin Ekholm (St. John’s College, USA)
- “The Healing Touch of the Stuart Kings: Debating the Royal Touch during the Restoration, 1660-85,” Stephen Brogan (Independent Scholar, UK)
- “Eighteenth-Century Sensation: Touch, Sensibility and Irritability in Natural History,” Susannah Gibson (Independent Scholar, Ireland)

Transnational Science and Politics in Modern Asia

Tower Salon B (1st Level)

Chair, Commentator, and Organizer: Zuoyue Wang (California State Polytechnic University, Pomona, USA)

- “A British Physicist as Diplomat and Agent: William Band’s Wartime Association with Chinese Communists and Its Impact,” Danian Hu (The City College of the City University of New York, USA)
- “South-South Scientific Exchanges during the Cold War: Chinese Irrigation and Soil Conservancy through Indian Eyes, 1959,” Arunabh Ghosh (Harvard University, USA)
- “East Asian Impacts on the Globalization of Ocean Studies during the Cold War,” Nadin Heé (Free University of Berlin, Max Planck Institute for the History of Science, Germany)

12:00 PM – 1:15 PM

Roundtable: Epigenetics: Its History and Current Issues

Elizabethan A

Chair and Organizer: Erik Peterson (University of Alabama, USA)

Commentator: Daniel McKaughan (Boston College, USA)

- “Mapping the History of Epigenetics,” Erik Peterson (University of Alabama, USA)
- “Epigenetics and Development,” Antonine Nicoglou (Institute for the History and Philosophy of Science and Technique, The National Center for Scientific Research, France)
- “Epigenetics and Inheritance: from Nanney’s Epigenetic Control Systems to Today,” Francesca Merlin (Institute for the History and Philosophy of Science and Technique, The National Center for Scientific Research, France)
- “Epigenetics: The Cases of T. H. Huxley and Richard Goldschmidt,” Marsha L. Richmond (Wayne State University, USA)

Roundtable: Histories of Meteorology and Climatology

Oxford Room

Chair: Kristine Harper (Florida State University, USA)

Organizer: Angelo Matteo Caglioti (University of California, Berkeley, USA)

- “Scientific Practices, Imperial Goals: The Separation of Italian Climatology and Meteorology,” Angelo Matteo Caglioti (University of California, Berkeley, USA)
- “Drawing the Boundaries of Climate: Zones of Climatic Risk and Land Use Planning in the Great Depression,” James H. Bergman (Lyman Briggs College, Michigan State University, USA)
- “Cutting the Gordian Knot of Meteorology: New Theories, New Technologies, and New Knots,” James Fleming (Colby College, USA)
- “Weather by the Numbers? Yes... Climate? Not ‘til Later,” Kristine Harper (Florida State University, USA)

Graduate and Early Career Caucus Business Meeting and Workshop

Georgian Room (Mezzanine Level)

Chair: Bridget Collins (University of Wisconsin–Madison, USA)

See p. xx for more information on the Graduate and Early Career Caucus.

Forum for History of Human Science Business Meeting and Distinguished Lecture

Elizabethan C

“Autism: Between Risks and Rights,” Ellen Herman (University of Oregon, USA)

See p. xx for more information on the Forum for History of Human Science.

Early Science Forum Business Meeting

Victorian Room

See p. xx for more information on the Early Science Forum.

Forum for the History of Science in Asia Business Meeting

Elizabethan B

See p. xx for more information on the Forum for the History of Science in Asia.

Forum for the History of the Chemical Sciences Business Meeting

Elizabethan D

See p. xx for more information on the Forum for the History of the Chemical Sciences.

Forum for the History of the Mathematical Sciences Luncheon

St. Francis Suite – East Room (12th Level)

See p. xx for more information on the Forum for the History of the Mathematical Sciences.

Society for Philosophy of Science in Practice (SPSP) Informational Session

Yorkshire Room

The Society for Philosophy of Science in Practice (SPSP) was founded in 2007 by an international group of philosophers/historians of science, and seeks to provide a forum for presentation and discussion for work that uses an approach to philosophy based on scientific practice which takes into consideration theory, practice, and the world simultaneously, largely through biennial international conferences. Philosophy of science has traditionally focused on the relation between scientific theories and the world, at the risk of disregarding scientific practice. Although this approach has merits, we believe it can result in the neglect of some essential aspects of science. Accordingly we invite historians of science, medicine, and technology attending HSS who have interests in epistemological, ethical, or other philosophical issues relating to the practice of science to join us for this informational session and discussion as we are eager to involve more historians in our organization.

For more information, please visit <http://www.philosophy-science-practice.org/en/events/fifth-biennial-spsp-aarhus-2015/> or email Rachel Ankeny at rachel.ankeney@adelaide.edu.au.

1:30 PM – 3:30 PM

Roundtable: Asilomar at 40: History and Memory

Yorkshire Room

Chair, Commentator, and Co-Organizer: Robin Scheffler (Massachusetts Institute of Technology, USA)

Co-Organizer: Luis Campos (University of New Mexico, USA)

- “The Political Design and Legacy of the 1975 Asilomar Conference,” Susan Wright (University of California, Santa Cruz; University of Michigan, USA)
- “Synthetic Biology and the Ghost of Asilomar,” Luis Campos (University of New Mexico, USA)
- “The Missed Opportunities of Asilomar and the Implications for Regulating Controversial Technologies,” Shobita Parthasarathy (University of Michigan, USA)
- “Asilomar for Genome Editing? Regulation in the Age of Global Science,” Doogab Yi (Seoul National University, South Korea)

Roundtable: Collecting the History of Science: The Trade in Rare Books, Manuscripts and Historical Objects

Victorian Room

Chair, Commentator, and Organizer: Cassandra Hatton (Bonhams Auctioneers, USA)

Participants:

- Cassandra Hatton (Bonhams Auctioneers, USA)
- Christian Westergaard (Sophia Rare Books, Denmark)
- David Rips (Younger Optics, USA)
- Kristen Gallerneaux (The Henry Ford, USA)
- Dan Lewis (Huntington Library, USA)

Roundtable: Darwinian Loose Ends: Evolution, Narrative and Maladaptation

Elizabethan C

Chair: Staffan Müller-Wille (University of Exeter, UK)

Commentator: Michael Ruse (Florida State University, USA)

Organizer: Will Abberley (University of Sussex, UK)

- “On the Role of Vanity and Death in Darwinian Evolution,” Staffan Müller-Wille (University of Exeter, UK)
- “Spanish Literature and the Conscience of Sexual Selection,” Travis Landry (Kenyon College, USA)
- “The Invention of Empathy: Darwin, Aesthetics, and the Problem of Others,” Richard Kaye (Hunter College, USA)

Saturday, November 21, 1:30 PM – 3:30 PM

- “Darwinian Mimicry, Maladaptation and Narrative Uncertainty,” Will Abberley (University of Sussex, UK)
- “On the other hand ...? Darwin's Vacillations on Human Selection,” Diane Paul (University of Massachusetts Boston, USA)

Roundtable: Gender in History of Science Pedagogy

Elizabethan A

Chair: Karen Rader (Virginia Commonwealth University, USA)

Organizer: Xan Chacko (University of California, Davis, USA)

Participants:

- Maura Flannery (St. John's University, USA)
- Tina Gianquitto (Colorado School of Mines, USA)
- Bridget Gurtler (Bryn Mawr College, USA)
- Erika Milam (Princeton University, USA)
- Donald Opitz (DePaul University, USA)
- Sarah Richardson (Harvard University, USA)
- Debbie Weinstein (Brown University, USA)

Roundtable: How Should the History of Science Engage with Political Activism and Social Justice?

Hampton Room

Chairs and Organizers: Joanna Radin (Yale University, USA) and Myrna Perez Sheldon (Rice University, USA)

Commentator: Jennifer Reardon (University of California, Santa Cruz, USA)

- “Beyond the Charge of Pseudoscience: New Directions for the Study of Race and the History of Science,” Terence Keel (University of California, Santa Barbara, USA)
- “History, Science, and the Politics of Return,” Joanna Radin (Yale University, USA)
- “The Epistemic Character and Political Use of Science in the United States,” Myrna Perez Sheldon (Rice University, USA)
- “Social Unrest and the Power of ‘Science’ in 1960s Mexico,” Gabriela Soto Laveaga (University of California, Santa Barbara, USA)

Roundtable: Ideas of Environment

Sussex Room

Chair: Rebecca Woods (Columbia University, USA)

Commentator: Etienne Benson (University of Pennsylvania, USA)

Organizer: Isabel Gabel (University of Chicago, USA)

- “Scaling the Environment,” Fredrik Jonsson (University of Chicago, USA)

Saturday, November 21, 1:30 PM – 3:30 PM

- “French Geography and a Humanist Articulation of Environment until Braudel's *La Méditerranée*,” Sverker Sörlin (Royal Institute of Technology, Sweden)
- “Animal Environments and the Philosophy of History in France,” Isabel Gabel (University of Chicago, USA)
- “Imperial Environments: Between Physical and Figurative,” Rebecca Woods (Columbia University, USA)

Roundtable: (In)visible Labor in the Human Sciences

Oxford Room

Chair: Susan Lindee (University of Pennsylvania, USA)

Organizer: Judith Kaplan and Jenny Bangham (Max Planck Institute for the History of Science, Germany)

Commentator: Susan Lindee (University of Pennsylvania, USA)

- “Anonymity,” Jenny Bangham (Max Planck Institute for the History of Science, Germany)
- “Ventriloquism,” Sarah Blacker (University of Alberta, Canada; Max Planck Institute for the History of Science, Germany)
- “Blanks,” Dan Bouk (Colgate University, USA)
- “Inscription,” Judith Kaplan (Max Planck Institute for the History of Science, Germany)
- “Bureaucracy,” Laura Stark (Vanderbilt University, USA)

Roundtable: The New Historiography of Science, Technology, and Intellectual Property Law

Georgian Room (Mezzanine Level)

Chair and Commentator: Daniel Kevles (Yale University, USA)

Organizer: Gerardo Con Diaz (Yale University, USA)

- “The Possibilities and Responsibilities of Historians of IP,” Kara Swanson (Northeastern University, USA)
- “Intellectual Property, Litigation, and Regulation in Early Biotech,” Nicolas Rasmussen (University of New South Wales, Australia)
- “The Many Natures of Software as an Intellectual Property,” Gerardo Con Diaz (Yale University, USA)
- “Intellectual Property as Technology,” Mario Biagioli (University of California, Davis, USA)

Roundtable: Spatial Histories of Science

Essex Room

Chair and Organizer: William Rankin (Yale University, USA)

Commentator: Carla Yanni (Rutgers University, USA)

Saturday, November 21, 1:30 PM – 3:30 PM

- “Visualizing Time, Travel, and Publication in the History of Expeditionary Research, 1830–1930,” Alistair Sponsel (Vanderbilt University, USA)
- “Towards a History of Scaling,” Deborah Coen (Barnard College Columbia University, USA)
- “Environmental Knowing and the Making of Social Justice in Architectural Space,” Aimi Hamraie (Vanderbilt University, USA)
- “Spatial History and Geographic Knowledge,” William Rankin (Yale University, USA)

Roundtable: Translation as Process: Border-Crossing Knowledge, Materialities, and Concepts in the History of Science in Asia (and Beyond)

Elizabethan B

Chair and Organizer: Martina Siebert (Max Planck Institute for the History of Science, Germany)

Sponsored by the Forum for the History of Science in Asia

- “On Machine Translation and Translating Machines: A Cold War History of Chinese Computing,” Thomas S. Mullaney (Stanford University, USA)
- “Translation, Pictorialisation, and the Practice of Medicine in Nineteenth-Century Owari, Japan,” Maki Fukuoka (University of Leeds, UK)
- “The Uses and Limitations of Translation Studies for Histories of Knowledge in Motion,” Joachim Kurtz (Karl Jaspers Center for Advanced Transcultural Studies, Heidelberg University, Germany)
- “Vernacularizing Translation: Power, Affect and the Aesthetics of Sound,” Projit Mukharji (University of Pennsylvania, USA)
- “Improving by Translating? The Multilingual and Multiple Afterlives of Ludwik Fleck’s ‘Genesis and Development of a Scientific Fact,’” Martina Schlünder (University of Toronto, Canada; Max Planck Institute for the History of Science, Germany)

Roundtable: Why Should We Care about the History of the IAEA? Negotiating Science in a Techno-Political International Organization

Kent Room

Chair and Commentator: John Krige (Georgia Institute of Technology, USA)

Organizer: Maria Rentetzi (University of Vienna, Austria)

- “Beyond the Nuclear Watchdog: Survival Strategies at the International Atomic Energy Agency,” Jacob Hamblin (Oregon State University, USA)
- “‘Countries worthy of attention’: the IAEA’s Technical Assistance Programs in Latin America (1955-1970),” Gisela Mateos (National Autonomous University of Mexico, Mexico) and Edna Suárez Díaz (National Autonomous University of Mexico, Mexico)
- “The International Atomic Energy Agency and the Development of International Political Authority,” Robert Brown (Temple University, USA)

Saturday, November 21, 1:30 PM – 3:30 PM

- “Getting the Radiation Dose Correct: The Politics of Radiation Dosimetry and the Role of the IAEA,” Maria Rentetzi (National Technical University of Athens, Greece)

Roundtable: Writing Histories of Data

Elizabethan D

Chair and Organizer: David Sepkoski (Max Planck Institute for the History of Science, Germany)

- “Data, Materiality, History,” Matthew Jones (Columbia University, USA)
- “Encoding and Intervening,” Stephanie Dick (Harvard University, USA)
- “Scaffolding the Data,” Wangui Muigai (Princeton University, USA)
- “What Difference Did Computers Make to the History of Data?” David Sepkoski (Max Planck Institute for the History of Science, Germany)
- “The Great Data Divergence,” Jessica Ratcliff (Yale-NUS College, Singapore)
- “Data Fantasies,” Hallam Stevens (Nanyang Technological University, Singapore)

3:30 PM – 3:45 PM

Coffee Break

California East and West, Mezzanine Lobby

The Coffee Break is sponsored by David Kaiser, MIT Gemeshausen Chair funds.

3:45 PM – 5:45 PM

After Ypres: The Integration of Science into War, Part I: Chemistry and Chemists through War

Yorkshire Room

Chair: Brigitte Van Tiggelen (Chemical Heritage Foundation, USA; Catholic University of Louvain, Belgium)

Organizer: Yoshiyuki Kikuchi (Graduate University for Advanced Studies, Japan)

Co-Sponsored by the Commission on the History of Modern Chemistry and the Forum for the History of the Chemical Sciences

- “U.S. Chemical Warfare in World War I: The Gas Networks,” Kathryn Steen (Drexel University, USA)
- “Auguste Trillat and the Foundations of the French Biological and Chemical Weapons Program,” Etienne Aucouturier (University of Ghana and French Ministry of Foreign Affairs, Ghana)
- “A Man of Peace in Times of War: Harold C. Urey, Pacifism, and National Service in the Two World Wars,” Matthew Shindell (Harvard University, USA)

Saturday, November 21, 3:45 PM – 5:45 PM

- “On the Social Responsibility of the Scientist in Wartime: Should Fritz Haber Have Been Tried as a War Criminal?” Jeffrey Johnson (Villanova University, USA)

Collecting Science: Antiquities and Materia Medica in 18th and 19th-Century Mexico

Hampton Room

Chair and Organizer: Paula De Vos (San Diego State University, USA)

Commentator: Violeta Arechiga (Metropolitan Autonomous University, Mexico City, Mexico)

- “Nahua Materia Medica and the Formation of Patriotic Pharmacopeia in Colonial and Early National Mexico,” Paula De Vos (San Diego State University, USA)
- “Writing Lessons in the History of Antiquarianism: Mexico City, ca. 1800s,” Miruna Achim (Metropolitan Autonomous University Cuajimalpa, Mexico)
- “Medical Recipes Written in Spanish Using Maya Pharmacopoeia, in Eighteenth-Century, Yucatán, México,” Laura Caso-Barrera (Postgraduate College, Puebla Campus, Mexico)

Exploring Human/Animal and Biological/Social Boundaries in Twentieth-Century Science

Oxford Room

Chair and Commentator: Lloyd Ackert (Drexel University, USA)

Organizer: Eric Johnson (University of British Columbia, Canada)

- “Darwin's Russian Defender: Peter Kropotkin's Struggle Against Neo-Darwinism and Eugenics,” Eric Johnson (University of British Columbia, Canada)
- “The Vicissitudes of Soviet Primatology from the 1920s to the 1960s,” Dmitry Mikhel (Yuri Gagarin State Technical University of Saratov, Russia)
- “Configuring the Animal-Human Boundary in Soviet Psychology: Nadezhda Ladygina-Kohts and Her Studies on Primate Cognition, 1923-1963,” Kirill Rossiianov (Russian Academy of Sciences, Russia)

Imagining Science and Technology in the Shadow of the Cold War

Georgian Room (Mezzanine Level)

Chair and Commentator: Roger Launius (Smithsonian Institution, National Air and Space Museum, USA)

Organizer: Greg Eghigian (Pennsylvania State University, USA)

- “The Cold War and the Making of the Flying Saucer Era,” Greg Eghigian (Pennsylvania State University, USA)

Saturday, November 21, 3:45 PM – 5:45 PM

- “Projecting the Best of American Science Abroad During the ‘Crisis of Confidence’: U.S. Science-Themed Propaganda Films in the 1970s,” Teasel Muir-Harmony (American Institute of Physics, USA)
- “Space Stations on a Changing Frontier: Race, Gender, and Space Science Fiction,” Margaret A. Weitekamp (Smithsonian Institution, National Air and Space Museum, USA)

The Marginalization of Astrology in Early Modern Science

Victorian Room

Chair: Hiro Hirai (Radboud University Nijmegen, Netherlands)

Organizer: Rienk Vermij (University of Oklahoma, USA)

- “Removing Astrology from the University of Valencia. The Spanish Novatores and the Decline of the Discipline in Spain at the End of the Seventeenth Century,” Tayra Lanuza-Navarro (Huntington Library, USA)
- “The Marginalization of Astrology in the Early-Modern Discourse on Causation and Meaning of Comets,” Anna Jerratsch (Max Planck Institute for the History of Science, Germany)
- “The Role of Astrological Knowledge in the Seventeenth-Century Dutch Republic,” Rienk Vermij (University of Oklahoma, USA)
- “The Mechanical Resilience of Astrology,” Aaron Spink (University of South Florida, USA)

Pathologies of Perception: Nostalgia, Distraction and Other Elasticities of Time and Space, 1688 to the Present

Elizabethan B

Chair and Commentator: Shigehisa Kuriyama (Harvard University, USA)

Organizer: Lily Huang (University of Chicago, USA)

- “The Deadly Time of Nostalgia in Early-Modern Europe,” Thomas Dodman (Boston College, USA)
- “Distraction Post-Darwin: The Uses and Disuses of the Past in French Psychology, 1880-1900,” Lily Huang (University of Chicago, USA)
- “An Optic for All Time: Film, Science, and Evangelism in the Atomic Age,” Caitjan Gainty (King’s College, UK)

Prisca Scientia: Paradoxes of Progress in History and the Sciences, 1500-1800

Elizabethan A

Chair and Organizer: Alexander Statman (Stanford University, USA)

- “The Tarot of Yu the Great: Enlightenment Theories of Civilization's Oriental Origins,” Alexander Statman (Stanford University, USA)
- “Progress or Return? Leibniz and Newton Historicize the Calculus,” Abram Kaplan (Columbia University, USA)

Saturday, November 21, 3:45 PM – 5:45 PM

- “Languages, Knowledge, and the History of a New World from Afar, 1492-1650,” Valeria López Fadul (University of Chicago, USA)
- “Humanist Historia Literaria and the Contested Historicity of Antiquity’s Distant Past,” Frederic Clark (New York University, USA)

Re-Periodizing the History of Mathematics

Elizabethan D

Chair: Massimo Mazzotti (University of California, Berkeley, USA)

Organizer: Michael J. Barany (Princeton University, USA)

Sponsored by the Forum for the History of the Mathematical Sciences

- “Triumph and Forgetfulness: The Historiography of Ancient Mathematics,” Jean De Groot (The Catholic University of America, USA)
- “The Purification of Mathematics and its Consequences,” Gerard Alberts (University of Amsterdam, Netherlands)
- “Anticipation, Collection, Review, and the Hybrid Time of Modern Mathematics,” Michael J. Barany (Princeton University, USA)
- “Towards a Cyborg History of Mathematics,” Kevin Lambert (California State University, Fullerton, USA)

Science and Environmental Authority in the Arctic

Sussex Room

Chair and Commentator: Simone Turchetti (University of Manchester, UK)

Organizer: Peder Roberts (KTH Royal Institute of Technology, Sweden)

- “Studying Fish While Naturalizing Markets? Debates Over Far North Atlantic Fisheries Development in the Early Twentieth Century,” Janina Priebe (Umeå University, Sweden)
- “Science and Environmental Authority on Interwar Svalbard,” Peder Roberts (KTH Royal Institute of Technology, Sweden)
- “Science and Danish Authority in Greenland Over a Century of Change,” Janet Martin-Nielsen and Matthias Heymann (University of Aarhus, Denmark)

The Sciences of Taste

Elizabethan C

Chair and Organizer: Christopher Phillips (Carnegie Mellon University, USA)

- “Taste Panel as Laboratory Instrument, 1935-1950,” Nadia Berenstein (University of Pennsylvania, USA)
- “Chemistry and Connoisseurship in the Twentieth-Century Wine-World,” Steven Shapin (Harvard University, USA)
- “Maynard Amerine, Sensory Judgments, and the Statistical Measure of Expertise,” Christopher Phillips (Carnegie Mellon University, USA)

Saturday, November 21, 3:45 PM – 5:45 PM

- “Taken with a Grain of NaCl: Molecular Gastronomy and the Biochemistry of Cuisine,” Sophia Roosth (Harvard University, USA)

Thinking Small in the Early Modern Period/Cultures and Communities

Kent Room

* This session is composed of two distinct mini-sessions that resulted from the withdrawals of other participants. The first two papers are from an organized session, the latter two were contributed papers. The HSS thanks the participants for agreeing to merge the sessions.

Chair: Mi Gyung Kim (North Carolina State University, USA)

Organizer: Rodolfo Garau (Max Planck Institute for the History of Science, Germany)

- “Epistemological Subtleties. How the Reference to the Extremely Small Could Count as an Explanation in Early Modern Natural Philosophy,” Rodolfo Garau (Max Planck Institute for the History of Science, Germany)
- “The Continuous, the Infinitesimal, and Elasticity: Leibniz’s ‘Kinematics’ of Collision,” Tzuchien Tho (University of Bucharest, Romania)
- “Engineering Knowledge, Engineering Practice, and German Idealism in the Industrial Age,” Adelheid Voskuhl (University of Pennsylvania, USA)
- “A Comparative Social Morphology of Scientific Judgment in Theoretical Physics,” Thomas Krendl Gilbert (University of California, Berkeley, USA) and Andrew Loveridge (University of Wisconsin–Madison, USA)

Why and How Logic Matters For Medicine

Essex Room

Chair: Volker Hess (Charité University Medicine Berlin, Germany)

Organizer: Katja Krause (Max Planck Institute for the History of Science, Germany)

- “Galenic and Alexandrian Approaches to Medicine: A History of Opposition and Harmony,” Luca Gili (KU Leuven, Belgium)
- “Albert the Great on the Discipline of Medicine: Why Every Physician Ought to Be a Philosopher First,” Katja Krause (Max Planck Institute for the History of Science, Germany)
- “Johan Baptista van Helmont: His Rejection of Aristotelian Logic and Galenic Medicine,” Sietske Fransen (Max Planck Institute for the History of Science, Germany)
- “George Murray Humphry and the Logic of Collective Investigation, 1880-1900,” Alexander Moffett (University of Chicago, USA)

Saturday, November 21, 6:00 PM – 6:45 PM

6:00 PM – 6:45 PM

HSS Prize Ceremony

Colonial Room (Mezzanine Level)

7:15 PM – 9:15 PM

Film Presentation: Merchants of Doubt

Colonial Room (Mezzanine Level)

Supported by the Elizabeth Paris Fund for Socially Engaged History and Philosophy of Science.

The film is based on the Davis Prize-winning book by HSS members Erik M. Conway and Naomi Oreskes. Dr. Conway will be joining us for the screening and Q&A session to follow.

The event is free, but attendees are asked to register for a ticket. Please visit hssonline.org/mod for more information.

SUNDAY, NOVEMBER 22, 2015

8:00 AM – 9:00 AM

HSS Business Meeting

Georgian Room (Mezzanine Level)

All members are welcome to attend. Light breakfast will be served. See p. 60 for the agenda.

9:00 AM – 11:00 AM

After Ypres: The Integration of Science into War, Part II: Reactions to the Integration of Science into War

Elizabethan D

Chair: Brigitte Van Tiggelen (Chemical Heritage Foundation, USA; Catholic University of Louvain, Belgium)

Commentator: Michael Gordin (Princeton University, USA)

Organizer: Yoshiyuki Kikuchi (Graduate University for Advanced Studies, Japan)

Sunday, November 22, 9:00 AM – 11:00 AM

Co-Sponsored by the Commission on the History of Modern Chemistry and the Forum for the History of the Chemical Sciences

- “In Fear of Science: Lay and Diplomatic Doubt about the Geneva Gas Protocol and Efforts to Ban Gas Effectively in the Interwar and World War II,” Molly Girard Dorsey (University of New Hampshire, USA)
- “Blowing Gas across Discourses about Science in 1920s Britain,” Robert Bud (Science Museum, London, UK)
- “The Rabbits of Okunoshima: Public Memory and the Legacies of Chemical Warfare in Japan,” Walter Grunden (Bowling Green State University, USA)

Blood and Bones, Spaces and Traces: Crime Scenes, Laboratories and Modern Forensic Cultures

Elizabethan B

Chair and Commentator: Thomas Laqueur (University of California, Berkeley, USA)

Organizer: Neil Pemberton (University of Manchester, UK)

- “Reading the Blood: Paul Kirk and the Performance of Blood Spatter Analysis in Modern American Forensic Cultures,” Neil Pemberton (University of Manchester, UK)
- “‘The House of Murder’: The Christie Investigation and the Emergence of the Forensic ‘Team’ in Postwar England,” Ian Burney (University of Manchester, UK)
- “What Bones Won’t Tell: Linking Skeletal Maturity to Moral Responsibility in Criminal Trials in the British Empire,” Binyamin Blum (Hebrew University of Jerusalem, Israel)

The Complex Genealogies of Race: Genetics and Anthropology in the Post-World War II United States

Tower Salon B (1st Level)

Chair and Commentator: Keith Wailoo (Princeton University, USA)

Organizer: Arleen Tuchman (Vanderbilt University, USA)

- “The Genealogy of the Concept ‘Tri-Racial,’” Michell Chresfield (Vanderbilt University, USA)
- “The Racialized Genealogy of the ‘Gay Gene,’” Alexandra Stern (University of Michigan, USA)
- “The Racialized Genealogy of the Thrifty Gene Hypothesis,” Arleen Tuchman (Vanderbilt University, USA)

Controlling Science in Print: Case Studies from the Early Modern World

Georgian Room (Mezzanine Level)

Chair and Commentator: Adrian Johns (University of Chicago, USA)

Organizer: Hannah Marcus (Stanford University, USA)

Sunday, November 22, 9:00 AM – 11:00 AM

- “Prohibited Science and Licensed Readers in Counter-Reformation Italy,” Hannah Marcus (Stanford University, USA)
- “A Book Nobody Read? Cellarius’s Copernican Atlas in Seventeenth-Century Rome,” Daniel Stolzenberg (University of California, Davis, USA)
- “‘An Extremely Rare Book’: Print Culture, Tropical Drugs, and Vernacular Knowledge in the Portuguese Empire,” Benjamin Breen (Columbia Society of Fellows, USA)

Expertise in the Age of Enlightenment

Elizabethan A

Chair and Commentator: Andre Wakefield (Pitzer College, USA)

Organizer: Meghan Roberts (Bowdoin College, USA)

- “Fieldwork and Fieldworkers: Labor and Expertise in the Enlightened Earth Sciences,” Lydia Barnett (Northwestern University, USA)
- “Spontaneous Human Combustion, Criminal Trials, and Medical Expertise in Enlightenment France,” Meghan Roberts (Bowdoin College, USA)
- “Expertise, Amateurism, and Scientific Sociability in Post-Revolutionary France,” Dena Goodman (University of Michigan, USA)

Historiography of Cultural Diversity in the History of Science

Victorian Room

Chair and Organizer: Kenji Ito (Graduate University for Advanced Studies, Japan)

- “Dealing with Cultural Diversity in the History of Mathematics: The Case of Moritz Cantor,” Martina Schneider (Paris Diderot University, The National Center for Scientific Research, France; Johannes Gutenberg University of Mainz, Germany)
- “Civilizations and Diversity: Explorations in the Historiography of Sanskrit Mathematical Tradition (1900-1950),” Dhruv Raina (Jawaharlal Nehru University, India)
- “Yukawa Hideki and Self-Orientalism,” Kenji Ito (Graduate University for Advanced Studies, Japan)
- “Reclaiming Diversity: The Paradoxes of ‘Vedic Mathematics,’” Agathe Keller (Paris Diderot University, The National Center for Scientific Research, France)

Multiplying Histories of the Psychoactive Technosciences

Sussex Room

Chair: David Herzberg (University at Buffalo, USA)

Commentator: Caroline Jean Acker (Carnegie Mellon University, USA)

Organizer: Nancy Campbell (Rensselaer Polytechnic Institute, USA)

- “The Science and Politics of Opiate Overdose: Narcotic Antagonism as Conceptual Technology,” Nancy Campbell (Rensselaer Polytechnic Institute, USA)

Sunday, November 22, 9:00 AM – 11:00 AM

- “Treating or Disarming Nicotine Addiction: The Multiple Worlds of Nicotine Replacement from Nicorette Gum to the E-cigarette,” Mark Elam (University of Gothenburg, Sweden)
- “The Medicalized Drug War: Physicians and Pharmacists in the Punitive Era of Drug Control,” David Herzberg (University at Buffalo, USA)

Producing Knowledge, Promoting Products: Advertising, Commercial Communication, and the Practical Sciences in Comparative Global Perspective, 1750-1950

Chair and Commentator: Jeremy Vetter (University of Arizona, USA)

Organizer: Denise Phillips (University of Tennessee, USA)

- “Making Silk into Sense and Cents: Japanese Silk and the Search for Standards in the United States,” Lisa Onaga (Nanyang Technological University, Singapore)
- “The Science of Selling: Animal Agriculture and Its Products in the United States,” Brendan Matz (New York University, USA)
- “Advertising and Enlightenment: Commercial Communication and the Practical Sciences in Eighteenth-Century and Early Nineteenth-Century Germany,” Denise Phillips (University of Tennessee, USA)

Science and the State: Public Policy, Promotion, and State Support for Science in the Twentieth Century

Essex Room

Chair: James Fleming (Colby College, USA)

Organizer: Neasa McGarrigle (Trinity College Dublin, Ireland)

- “China’s Model for the Developing World: Western Scientists Endorsed Chairman Mao’s Socialist Science?” Darryl Brock (Central Connecticut State University, USA)
- “Recreating the Land of Scholars: Erwin Schrödinger and the Dublin Institute for Advanced Studies,” Neasa McGarrigle (Trinity College Dublin, Ireland)
- “De-Mobbing British Oceanography: The Politics and Networks behind the Founding of the National Institute of Oceanography,” Samuel Robinson (University of Manchester, UK)
- “Collapse of State and Science: Soviet Marine Science before and after 1991,” Gregory Ferguson-Cradler (Princeton University, USA)

Sociability and Intellectual Exchange in the Early Modern Ottoman Empire

Yorkshire Room

Chair: Paula Findlen (Stanford University, USA)

Commentator: Ahmed Ragab (Harvard University, USA)

Organizer: Valentina Pugliano (University of Cambridge, UK)

- “Do Try This at Home: Astronomy in the Ottoman Salon,” Helen Pfeifer (University of Cambridge, UK)

Sunday, November 22, 9:00 AM – 11:00 AM

- “Cure, Talk, Eat, Listen: The Life of Diplomatic Physicians in the Venetian Fondaci in the Ottoman Empire,” Valentina Pugliano (University of Cambridge, UK)
- “Hummus on Hot Iron: The Space and Place of Manuscript Pamphlets in the Medico-Legal Debates of the Seventeenth-Century Ottoman Empire,” Nir Shafir (University of California, Los Angeles, USA)

The Uses of Science and Medicine in Nineteenth and Twentieth Century Latin America

Hampton Room

Chair and Organizer: Patience Schell (University of Aberdeen, UK)

- “Mapping Out Gran Colombia’s Place in an American Hemisphere,” Lina Del Castillo (University of Texas at Austin, USA)
- “James Trail: The Amazon’s Forgotten Naturalist,” Patience Schell (University of Aberdeen, UK)
- “What is Social Medicine? A Chilean Experience of Medicine and Politics,” Beatriz Carrillo (University of Notre Dame, USA)
- “From Notional Parks to National Places: Field Science and Nature Protection in Patagonia,” Emily Wakild (Boise State University, USA)